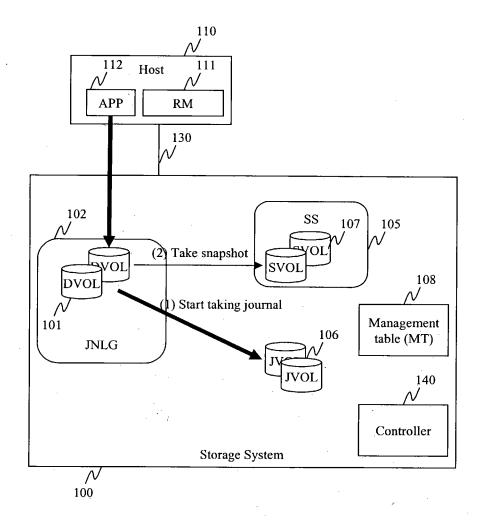
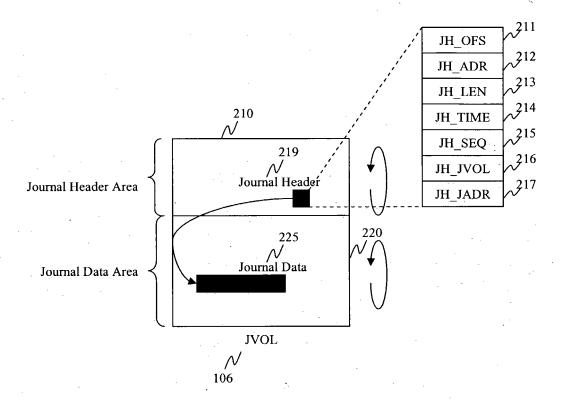
George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 1 of 7

Fig. 1 Overview of backup



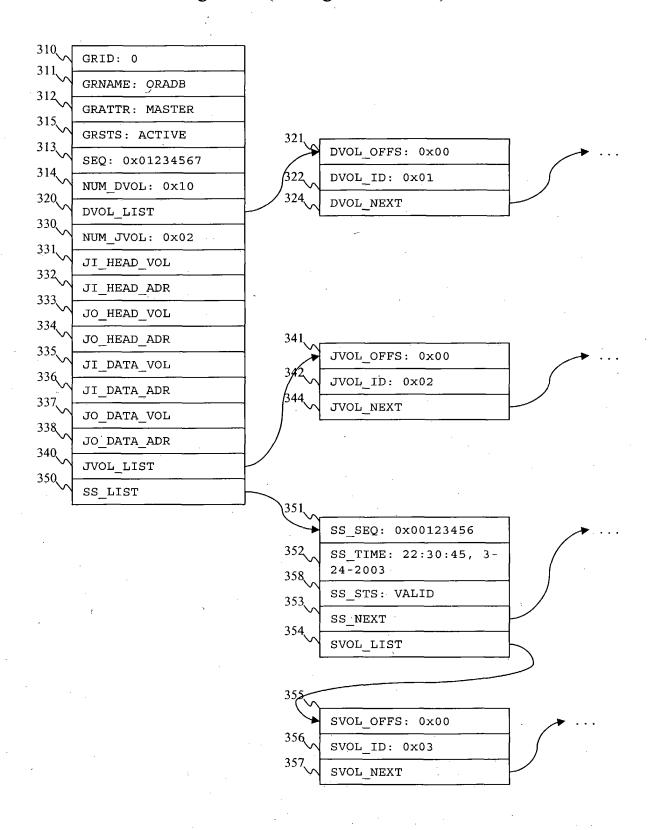
George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 2 of 7

Fig. 2 Control Data for Journal



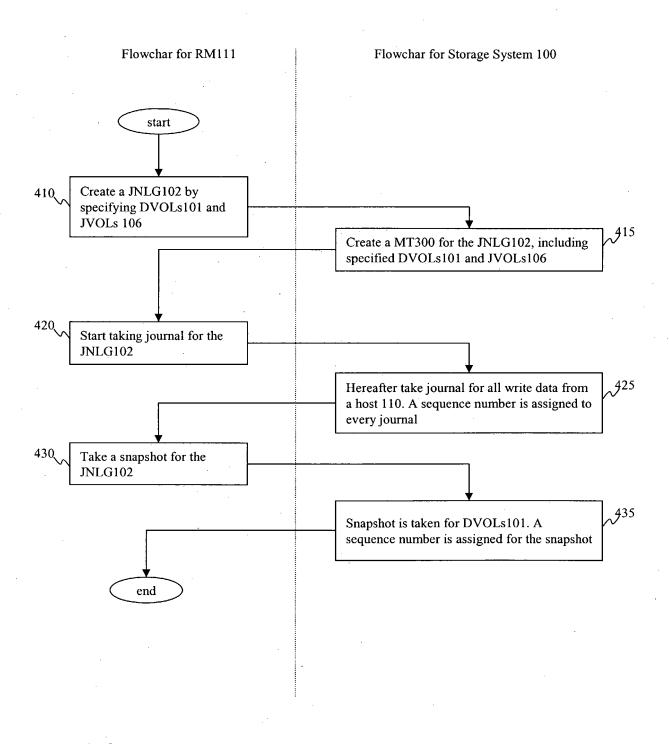
George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 3 of 7

Fig. 3 MT(Management Table) 300



George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 4 of 7

Fig. 4 Starting journal



George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 5 of 7

Fig. 5 Relationship between snapshot and journal

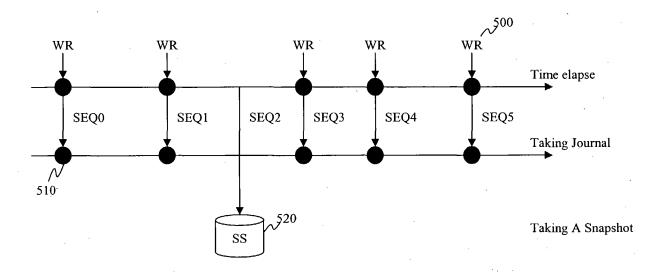
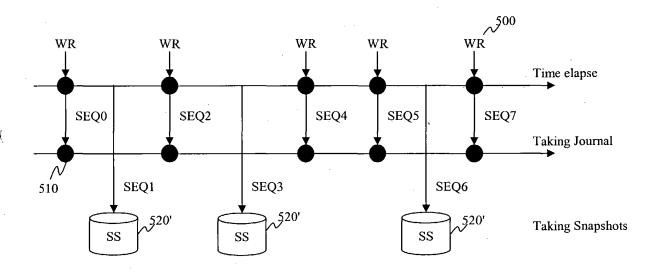
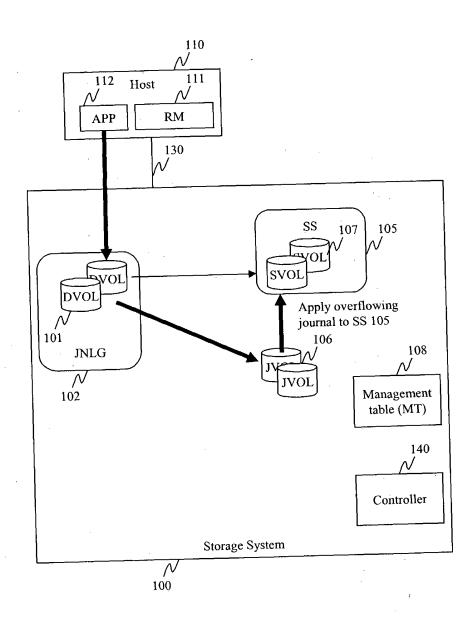


Fig. 5A Relationship between multiple snapshots and journal



George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 6 of 7

Fig. 6 Overflowing JNL



George B. F. Yee, Reg. No. 37,478
Telephone: 650-326-2400
Inventor: Kenji Yamagami
Title: Method and Apparatus for Backup and Recovery System
Using Storage Based Journaling
Sheets of drawings 7 of 7

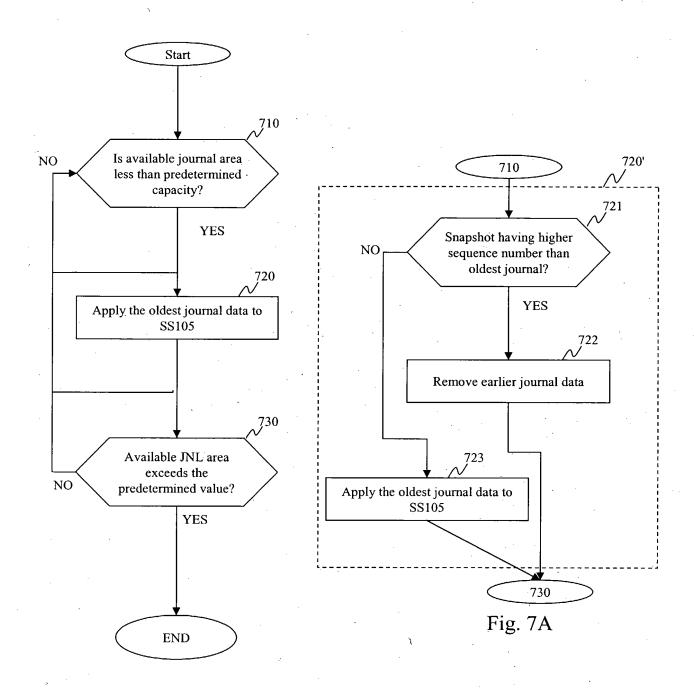


Fig. 7 Overflowing JNL